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Form PTO 1449 US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-LJ 4494	SERIAL NO. 09/757,041
	APPLICANT: Reed and Sato	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: January 9, 2001	GROUP: 1645

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

✓	✓	Allen et al., "CD40 Ligand Gene Defects Responsible for X-linked Hyper-IgM Syndrome," <u>Science</u> 259:990-993 (1993)
	✓	Armitage et al., "Molecular and Biological Characterization of a Murine Ligand for CD40," <u>Nature</u> 357:80-82 (1992)
	✓	Barlow et al., "Structure of the C3HC4 Domain by 1H-nuclear Magnetic Resonance Spectroscopy. A new structural class of zinc-finger," <u>J. Mol. Biol.</u> 237:201-211 (1994)
	✓	Clark and Ledbetter, "How B and T cells talk to each other," <u>Nature</u> 367:425-428 (1994)
✓	✓	Clark and Ledbetter, "Activation of human B cells mediated through two distinct cell surface differentiation antigens, Bp35 and Bp50," <u>Pro. Natl. Acad. Sci., USA</u> 83:4494-4498 (1986)

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SEP		Cheng et al., "Involvement of CRAF1, a relative of TRAF, in CD40 signaling," <u>Science</u> , 267:1494-1498 (1995)
X	✓	Choi et al., "Induction of NF-AT in normal B lymphocytes by anti-immunoglobulin or CD40 ligand in conjunction with IL-4," <u>Immunity</u> 1:179-187 (1994)
X	✓	DeFrance et al., "Interleukin 10 and transforming growth factor beta cooperate to induce anti-CD40-activated naive human B cells to secrete immunoglobulin A," <u>J. Exp. Med.</u> 175:671-682 (1992)
X	✓	DiSanto et al., "CD40 Ligand Mutations in X-linked Immunodeficiency with Hyper-IgM," <u>Nature</u> 361:541-543 (1993)
X	✓	Durie et al., "Prevention of Collagen-induced Arthritis with an Antibody to gp39, the Ligand for CD40," <u>Science</u> 261:1328-1330 (1993)
X	✓	Fields and Song, "A Novel Genetic System to Detect Protein-protein Interactions," <u>Nature</u> 340:245-246 (1989)
X	✓	Foy et al., "In vivo CD40-gp39 Interactions Are Essential for Thymus-dependent Humoral Immunity. II. Prolonged Suppression of the Humoral Immune Response by an Antibody to the Ligand for CD40, gp39," <u>J. Exp. Med.</u> 178:1567-1575 (1993)
X	✓	Fuleihan et al., "Defective Expression of the CD40 Ligand in X Chromosome-linked Immunoglobulin Deficiency with Normal or Elevated IgM," <u>Proc. Natl. Acad. Sci., USA</u> 90:2170-2173 (1993)
X	✓	Freemont, "The RING finger. A novel protein sequence motif related to the zinc finger," <u>Ann. New York Acad. Sci.</u> 684:174-192 (1993)
X	✓	Gauchat et al., "Induction of Human IgE synthesis in B Cells by Mast Cells and Basophils," <u>Nature</u> 365:340-343 (1993)

EXAMINER A. L. [Signature]	DATE CONSIDERED 10/14/00
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✓	x	Gascan et al., "Anti-CD40 Monoclonal Antibodies or CD4+ T Cell Clones and IL-4 Induce IgG4 and IgE Switching in Purified Human B Cells via Different Signaling Pathways," <u>J. Immunol.</u> 147:8-13 (1991)
✓	x	Gordon et al., "Resting B Lymphocytes Can Be Triggered Directly Through the CDw40 (Bp50) Antigen. A Comparison with IL-4-Mediated Signaling," <u>J. Immunol.</u> 140:1425-1430 (1988)
✓	x	Gordon et al., "Synergistic Interaction Between Interleukin 4 and Anti-Bp50 (CDw40) Revealed in a Novel B Cell Restimulation Assay," <u>Eur. J. Immunol.</u> 17:1525-1538 (1987)
✓	x	Hollenbaugh et al., "The Human T Cell Antigen gp39, a Member of the TNF Gene Family, is a Ligand for the CD40 Receptor: Expression of a Soluble Form of gp39 with B Cell Co-stimulatory Activity," <u>EMBO J.</u> 11:4313-4321 (1992)
✓	x	Hu et al., "A novel RING finger protein interacts with the cytoplasmic domain of CD40," <u>J. Biol. Chem.</u> , 269:30069-30072 (1994)
✓	x	Itoh et al., "The Polypeptide Encoded by the cDNA for Human Cell Surface Antigen Fas Can Mediate Apoptosis," <u>Cell</u> 66:233-243 (1991)
✓	x	Itoh and Nagata, "A Novel Protein Domain Required for Apoptosis. Mutational Analysis of Human Fas Antigen," <u>J. Biol. Chem.</u> 268:10932-10937 (1993)
✓	x	Jabara et al., "CD40 and IgE: Synergism Between Anti-CD40 Monoclonal Antibody and Interleukin 4 in the Induction of IgE Synthesis by Highly Purified Human B Cells," <u>J. Exp. Med.</u> 172:1861-1864 (1990)
✓	x	Kawabe et al., "The Immune Responses in CD40-deficient Mice: Impaired Immunoglobulin Class Switching and Germinal Center Formation," <u>Immunity</u> 1:167-178 (1994)
✓	x	Korthauer et al., "Defective Expression of T-cell CD40 Ligand Causes X-linked Immunodeficiency with Hyper-IgM," <u>Nature</u> .361:539-541 (1993)

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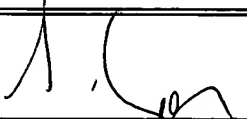


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✓	X	Lederman et al., "Non-antigen Signals for B-cell Growth and Differentiation to Antibody Secretion," <u>Curr. Opin. Immunol.</u> 5:439-444 (1993)
✓	X	Ledbetter et al., "Augmentation of Normal and Malignant B Cell Proliferation by Monoclonal Antibody to the B Cell-specific Antigen BP50 (CDW40)," <u>J. Immunol.</u> 138:788-794 (1987)
✓	X	Liu et al., "Mechanism of Antigen-driven Selection in Germinal Centres," <u>Nature</u> 342:929-931 (1989)
✓	X	Liu et al., "Germinal Center Cells Express Bcl-2 Protein after Activation by Signals Which Prevent Their Entry into Apoptosis," <u>Eur. J. Immunol.</u> 21:1905-1910 (1991)
✓	X	Lovering et al., "Identification and preliminary characterization of a protein motif related to the zinc finger," <u>Proc. Natl. Acad. Sci. USA</u> , 90:2112-2116 (1993)
✓	X	Loetscher et al., "Molecular cloning and expression of the human 55 kd tumor necrosis factor receptor," <u>Cell</u> , 61:351-359 (1990)
✓	X	Mosialos et al., "The epstein-barr virus transforming protein LMP1 engages signaling proteins for the tumor necrosis factor receptor family," <u>Cell</u> , 80:389-399 (1995)
✓	X	Noelle et al., "A 39-kDa Protein on Activated Helper T Cells Binds CD40 and Transduces the Signal for Cognate Activation of B Cells," <u>Proc. Natl. Acad. Sci., USA</u> 89:6550-6554 (1992)
✓	X	Noelle et al., "CD40 and its Ligand, an Essential Ligand-receptor Pair for Thymus-dependent B-cell Activation," <u>Immun. Today</u> 13:431-433 (1992)
✓	X	Oehm et al., "Purification and Molecular Cloning of the APO-1 Cell Surface Antigen, a Member of the Tumor Necrosis Factor/nerve Growth Factor Receptor Superfamily. Sequence Identity with the Fas Antigen," <u>J. Biol. Chem.</u> 267:10709-10715 (1992)

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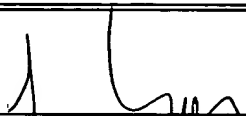
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✓	✓	Paulie et al., "A p50 Surface Antigen Restricted to Human Urinary Bladder Carcinomas and B Lymphocytes," <u>Cancer Immunol. Immunother.</u> 20:23-28 (1985)
✓	✓	Paulie et al., "The Human B Lymphocyte and Carcinoma Antigen, CDw40, Is a Phosphoprotein Involved in Growth Signal Transduction," <u>J. Immunol.</u> 142:590-595 (1989)
✓	✓	Rabizadeh et al., "Induction of Apoptosis by the Low-affinity NGF Receptor," <u>Science</u> 261:345-348 (1993)
✓	✓	Ren et al., "Signal Transduction via CD40 Involves Activation of Lyn Kinase and Phosphatidylinositol-3-Kinase, and Phosphorylation of Phospholipase C Gamma 2," <u>J. Exp. Med.</u> 179:673-680 (1994)
✓	✓	Rothe et al., "A Novel Family of Putative Signal Transducers Associated with the Cytoplasmic Domain of the 75 kDa Tumor Necrosis Factor Receptor," <u>Cell</u> 78:681-692 (1994)
✓	✓	Sato et al., "A novel member of the TRAF family of putative signal transducing proteins binds to the cytosolic domain of CD40," <u>FEBS Letters</u> , 358:113-118 (1995)
✓	✓	Schwabe and Klug, "Zinc mining for protein domains," <u>Struct. Biol.</u> 1:345-349 (1994)
✓	✓	Smith et al., "A receptor for tumor necrosis factor defines an unusual family of cellular and viral proteins," <u>Science</u> , 248:1019-1023 (1990)
✓	✓	Smith et al., "The TNF receptor superfamily of cellular and viral proteins: activation, costimulation, and death," <u>Cell</u> , 76:959-962 (1994)
✓	✓	Stamenkovic et al., "A B-lymphocyte Activation Molecule Related to the Nerve Growth Factor Receptor and Induced by Cytokines in Carcinomas," <u>EMBO. J.</u> 8:1403-1410 (1989)

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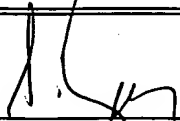
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✓ cm	✓	Tagawa et al., "Expression of novel DNA-binding protein with zinc finger structure in various tumor cells," <u>J. Biol. Chem.</u> , 265:20021-20026 (1990)
✓	✓	Tartaglia et al., "A Novel Domain Within the 55 kd TNF Receptor Signals Cell Death," <u>Cell</u> 74:845-853 (1993)
✓	✓	Uckun et al., "Stimulation of Protein Tyrosine Phosphorylation, Phosphoinositide Turnover, and Multiple Previously Unidentified Serine/threonine-specific Protein Kinases by the Pan-b-cell Receptor CD40/Bp50 at Discrete Developmental Stages of Human B-cell Ontogeny," <u>J. Biol. Chem.</u> 266:17478-17485 (1991)
✓	✓	Vojtek et al., "Mammalian Ras Interacts Directly with the Serine/threonine Kinase Raf," <u>Cell</u> 74:205-214 (1993)
✓	✓	Young et al., "Identification of a Human Epithelial Cell Surface Protein Sharing an Epitope with the C3d/Epstein-Barr Virus Receptor Molecule of B Lymphocytes," <u>Int. J. Cancer</u> 43:786-794 (1989)
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